

**SECTION 08 71 00
DOOR HARDWARE**

PART 1 - GENERAL

1.1 DESCRIPTION

Door hardware and related items necessary for complete installation and operation of doors.

1.2 RELATED WORK

- A. Caulking: Section 07 92 00 JOINT SEALANTS.
- B. Application of Hardware: Section 08 14 00, WOOD DOORS Section 08 11 13, HOLLOW METAL DOORS AND FRAMES Section 08 41 13, and ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS.
- C. Painting: Section 09 91 00, PAINTING.

1.3 GENERAL

- A. All hardware shall comply with UFAS, (Uniform Federal Accessible Standards) unless specified otherwise.
- B. Hardware for Labeled Fire Doors and Exit Doors: Conform to requirements of NFPA 80 for labeled fire doors and to NFPA 101 for exit doors, as well as to other requirements specified. Provide hardware listed by UL, except where heavier materials, large size, or better grades are specified herein under paragraph HARDWARE SETS. In lieu of UL labeling and listing, test reports from a nationally recognized testing agency may be submitted showing that hardware has been tested in accordance with UL test methods and that it conforms to NFPA requirements.
- C. Hardware for application on metal and wood doors and frames shall be made to standard templates. Furnish templates to the fabricator of these items in sufficient time so as not to delay the construction.
- D. The following items shall be of the same manufacturer, if possible, except as otherwise specified:
 - 1. Mortise locksets.
 - 2. Hinges for hollow metal and wood doors.
 - 3. Surface applied overhead door closers.
 - 4. Exit devices.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Hardware Schedule: Prepare and submit hardware schedule in the following form:

Hardware Item	Quantity	Size	Reference Publication Type No.	Finish	Mfr. Name and Catalog No.	Key Control Symbols	UL Mark (if fire rated and listed)	ANSI/BHMA Finish Designation

C. Samples and Manufacturers' Literature:

1. Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number.
2. Samples are not required for hardware listed in the specifications by manufacturer's catalog number, if the contractor proposes to use the manufacturer's product specified.

D. Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval.

1.5 DELIVERY AND MARKING

Deliver items of hardware to job site in their original containers, complete with necessary appurtenances including screws, keys, and instructions. Tag one of each different item of hardware and deliver to COTR for reference purposes. Tag shall identify items by Project Specification number and manufacturer's catalog number. These items shall remain on file in COTR's office until all other similar items have been installed in project, at which time the COTR will deliver items on file to Contractor for installation in predetermined locations on the project.

1.6 INSTRUCTIONS

- A. Hardware Set Symbols on Drawings: Except for protective plates, door stops, mutes, thresholds and the like specified herein, hardware requirements for each door are indicated on drawings by symbols. Symbols for hardware sets consist of letters "HW" followed by a number. Each number designates a set of hardware items applicable to a door type.
- B. Manufacturers' Catalog Number References: Where manufacturers' products are specified herein.
- C. Keying: All cylindrical locks shall be keyed into existing Best Access Systems Great Grand Master Key System. Provide removable BEST cores that are removable only with a special key without disassembly of knob or lockset. Cores shall be 7 pin BEST Interchangeable Core System. No substitutions will be allowed. Keying information will be furnished at a later date by the COTR.

1.7 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only. In text, hardware items are referred to by series, types, etc., listed in such specifications and standards, except as otherwise specified.
- B. American Society for Testing and Materials (ASTM):
F883-04 Padlocks

- C. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
- A156.1-00 Butts and Hinges
 - A156.2-03 Bored and Pre-assembled Locks and Latches
 - A156.3-01 Exit Devices
 - A156.4-00 Door Controls (Closers)
 - A156.5-01 Auxiliary Locks and Associated Products
 - A156.6-05 Architectural Door Trim
 - A156.8-05 Door Controls-Overhead Stops and Holders
 - A156.13-05 Mortise Locks and Latches Series 1000
 - A156.15-06 Release Devices-Closer Holder, Electromagnetic and
Electromechanical
 - A156.16-02 American National Standard for Auxiliary Hardware
 - A156.18-00 Materials and Finishes
 - A156.21-06 Thresholds
 - A156.22-05 Door Gasketing and Edge Seal Systems
 - A156.23-04 Electromagnetic Locks
 - A156.24-03 Delayed Egress Locking Systems
 - A156.26-00 Continuous Hinges
 - A156.31 American National Standard for Electric Strikes and Frame
Mounted Actuators
 - A250.8-03 Standard Steel Doors and Frames
- D. National Fire Protection Association (NFPA):
- 80-06..... Fire Doors and Fire Windows
 - 101-05..... Life Safety Code
- E. Underwriters Laboratories, Inc. (UL):
- Building Materials Directory (2007)

PART 2 - PRODUCTS

2.1 BUTT HINGES

- A. ANSI A156.1. The following types of butt hinges shall be used for the types of doors listed, except where otherwise specified:
1. Exterior Doors: Type A2111 for exterior doors. Hinges for exterior doors shall have non-removable pins.
 2. Interior Doors:
 - a. Type A8112 for lower usage doors; office doors, storeroom doors, etc.
 - b. Type A8111 for cross corridor doors, stairwell doors, push/pull restroom doors.
 3. Hinge sizing:

- a. Height – 4-1/2" high for door widths up to 3' 0". 5" high for door widths greater than 3' 0".
 - b. Width – For 1-3/4" thick doors provide 4-1/2" wide hinges, for 2" thick doors provide 5" wide hinges, for 2-1/4" thick doors provide 5" wide hinges, for flush frames. Hinge leaves shall be sufficiently wide to allow doors to swing clear of door frame trim
4. Hinge quantity: Provide 2 hinges for doors up to 60 inches, 3 hinges for doors up to 90 inches and 4 hinges for doors up to 120 inches. Dutch doors will require 4 hinges.
 5. Automatic doors hung on butts, provide Type A2111 for exterior doors and aluminum doors, and Type A8111 for other doors.
 6. Any door installed in structural steel frames: Type A2412, A8412, A2411 or A8411 as applicable, except where otherwise specified. Such hinges shall be of same quality and weight as other hinges listed above for applicable door sizes.
 7. Provide electrical hinges with the ElectroLynx connector used by McKinney hinges. If manufacturer can not provide the plug connectors, then material supplier is to equip electric hinges with 8 position connector used on the ElectroLynx system. Provide pins and crimp wires into male and female connectors. Provide 6" pigtail.
- B. See Articles "MISCELLANEOUS HARDWARE" and "HARDWARE SETS" for pivots and hinges other than butts specified above and continuous hinges specified below.

2.2 DOOR CLOSING DEVICES

Closing devices shall be products of one manufacturer for each type specified.

2.3 OVERHEAD CLOSERS

- A. Conform to ANSI A156.4, Grade 1.
- B. Closers shall conform to the following:
 1. The closer shall have 50 percent adjustable closing force over minimum value for that closer and have adjustable hydraulic back check effective between 60 degrees and 85 degrees of door opening.
 2. Where specified, closer shall have hold-open feature.
 3. Size Requirements: Size closers in accordance with manufacturer's recommendations and provide multi-size closers, sizes 1 through 6.
 4. Material of closer shall be cast iron or aluminum.
 5. Arm and brackets for closers shall be steel, malleable iron or high strength ductile cast iron.
 6. Closers shall have full size cover.
 7. Closers shall have adjustable hydraulic back-check and separate valves for closing and latching speed.
 8. Provide closers for wood doors with sex bolts or through bolts and grommet nuts.

2.4 DOOR STOPS

- A. Conform to ANSI A156.16.

- B. Provide door stops wherever an opened door or any item of hardware thereon would strike a wall, column, equipment or other parts of building construction. For concrete, masonry or quarry tile construction, use lead expansion shields for mounting door stops.
- C. Substitute floor stops Type L02141 or L02161 as appropriate, when wall bumpers would not provide an effective door stop.
- D. Where drywall partitions occur, use floor stops, Type L02141 or L02161.
- E. Provide stop Type L02011 or L02181, as applicable for exterior doors.
- F. Omit stops where floor mounted door holders are required and where automatic operated doors occur.
- G. Provide appropriate roller bumper for each set of doors (except where closet doors occur) where two doors would interfere with each other in swinging.
- H. Provide appropriate door mounted stop on doors in individual toilets where floor or wall mounted stops cannot be used.
- I. Provide overhead surface applied stop Type C02541, ANSI A156.8 on patient toilet doors in bedrooms where toilet door could come in contact with the bedroom door.
- J. Provide door stops on doors where combination closer magnetic holders are specified.

2.5 OVERHEAD DOOR HOLDERS

Conform to ANSI Standard A156.8. Overhead holders shall be of sizes recommended by holder manufacturer for each width of door. Set overhead holders for 110 degree opening, unless limited by building construction or equipment.

2.6 FLOOR DOOR HOLDERS

Conform to ANSI Standard A156.16. Provide extension strikes for Types L01301 and L01311 holders where necessary.

2.7 LOCKS AND LATCHES

- A. Conform to ANSI A156.2. Locks and latches for doors 45 mm (1-3/4 inch) thick or over shall have beveled fronts. Cylindrical locksets shall be removable core type and shall be furnished with construction removable cores and construction master keys. Provide BEST brand cores. Cores shall have seven pins and shall be removable by special key. Construct all cores so that they will be interchangeable into the core housings of all mortise locks, rim locks, cylindrical locks, and any other type lock included in the BEST Great Grand Master Key System. Disassembly of lever or lockset shall not be required to remove core from lockset. All locksets or latches on double doors with fire label shall have latch bolt with 19 mm (3/4 inch) throw, unless shorter throw allowed by the door manufacturer's fire label. Provide temporary keying device or construction core of allow opening and closing during construction and prior to the installation of final cores.
- B. In addition to above requirements, locks and latches shall comply with following requirements:
 - 1. Cylindrical Lock and Latch Sets: levers shall meet ADA (Americans with Disabilities Act) requirements. Cylindrical locksets shall be series 4000 Grade I. All locks and latchsets shall

be furnished with 122.55 mm (4-7/8-inch) curved lip strike and wrought box. At outswing pairs with overlapping astragals, provide flat lip strip with 21mm (7/8-inch) lip-to-center dimension. Provide lever design to match design selected by Architect or to match existing lever design.

2. Auxiliary locks shall be as specified under hardware sets and conform to ANSI A156.5.
3. Privacy locks in non-mental-health patient rooms shall have an inside thumbturn for privacy and an outside thumbturn for emergency entrance. Single occupancy patient privacy doors shall typically swing out; where such doors cannot swing out, provide center-pivoted doors with rescue hardware (see HW-2B).

2.8 KEYS

- A. Stamp all keys with change number and key set symbol. Furnish keys in quantities as follows:

Locks/Keys	Quantity
Cylinder locks	2 keys each
Change key blanks	20 each different key way
Master-keyed sets	6 keys each
Grand Master sets	6 keys each
Great Grand Master set	5 keys
Control key	3 key

2.9 ARMOR PLATES, COMBINATION KICK-MOP PLATES AND DOOR EDGING

- A. Conform to ANSI Standard A156.6.
- B. Provide protective plates as specified below:
1. Kick-mop plates and armor plates plastic or metal, Type J100 series, color as required (clear).
 2. Provide kick-mop plates for both sides of each new door, except where noted as not required. Kick-mop plates shall be 200 mm (8 inches) high. On push side of doors where jamb stop extends to floor, make combination kick-mop plates 38 mm (1-1/2 inches) less than width of door, except pairs of metal doors which shall have plates 25 mm (1 inch) less than width of each door. Extend all other combination kick-mop plates to within 6 mm (1/2 inch) of each edge of doors. Kick mop plates shall butt astragals. For jamb stop requirements, see specification sections pertaining to door frames.
 3. Kick-mop plates are not required on following door sides:
 - a) Armor plate side of doors;
 - b) Exterior side of exterior doors;
 - c) Closet side of closet doors;
 - d) Storage side of doors to or from storage spaces; and

- e) Both sides of aluminum entrance doors.
- 4. Armor plates for doors are listed under Article "Hardware Sets". Armor plates shall be 875 mm (36 inches) high and 38 mm (1-1/2 inches) less than width of doors, except on pairs of metal doors. Plates on pairs of metal doors shall be 25 mm (1 inch) less than width of each door. Where top of intermediate rail of door is less than 875 mm (35 inches) from door bottom, extend armor plates to within 13 mm (1/2 inch) of top rail. On doors equipped with panic devices, extend armor plates to within 13 mm (1/2 inch) of panic bolt cross bar.
- 5. Provide edge guards full door height. For fire rated doors, provide non mortise edge guards, and for non rated doors provide mortise edge guards.

2.10 EXIT DEVICES

- A. Conform to ANSI Standard A156.3. Exit devices shall be Grade 1; type and function are specified in hardware sets. Provide flush with finished floor strikes for vertical rod exit devices in interior of building. Trim shall have lever handles similar to locksets, unless otherwise specified.
- B. Exit devices for fire doors shall comply with Underwriters Laboratories, Inc., requirements for Fire Exit Hardware. Submit proof of compliance.

2.11 FLUSH BOLTS (LEVER EXTENSION)

- A. Conform to ANSI A156.16. Flush bolts shall be Type L24081 unless otherwise specified. Furnish proper dustproof strikes conforming to ANSI A156.16, for flush bolts required on lower part of doors. Modify flush bolts to fit stiles of aluminum doors on double-acting doors.
- B. Face plates for cylindrical strikes shall be rectangular and not less than 25 mm by 63 mm (1 inch by 2-1/2 inches).
- C. Friction-fit cylindrical dustproof strikes with circular face plate may be used only where metal thresholds occur.

2.12 DOOR PULLS

Conform to ANSI A156.6. Pull plate 90 mm by 350 mm (4 inches by 16 inches), unless otherwise specified. Pull to be 8" center to center. Cut plates of door pulls for cylinders, or turn pieces where required.

2.13 PUSH PLATES

Conform to ANSI A156.6. Plastic, Type J302, 200 mm (8 inches) wide by 350 mm (16 inches) high. Provide plastic Type J300 plates 100 mm (4 inches wide by 350 mm (14 inches) high) where push plates are specified for doors with stiles less than 200 mm (8 inches) wide. Color shall be as specified for kick-mop plates in this section. Cut plates for cylinders, and turn pieces where required. When wood grain plastic plates are specified, grain in plates shall run in same direction as grain of face veneer of wood doors.

2.14 COMBINATION PUSH AND PULL PLATES

Conform to ANSI 156.6. Type J303, stainless steel 3 mm (1/8 inch) thick, 80 mm (3-1/3 inches) wide by 800 mm (16 inches) high), top and bottom edges shall be rounded. Secure plates to

wood doors with 38 mm (1-1/2 inch) long No. 12 wood screws. Cut plates for turn pieces, and cylinders where required. Pull shall be mounted down.

2.15 THRESHOLDS

- A. Conform to ANSI A156.21, mill finish extruded aluminum, except as otherwise specified. In existing construction, thresholds shall be installed in a bed of sealant with machine screws and expansion shields. In new construction, embed aluminum anchors coated with epoxy in concrete to secure thresholds. Furnish thresholds for the full width of the openings.
- B. For thresholds at elevators entrances see other sections of specifications.

2.16 WEATHERSTRIPS (FOR EXTERIOR DOORS)

Conform to ANSI A156.22. Air leakage shall not to exceed 0.50 CFM per foot of crack length ($0.000774\text{m}^3/\text{s/m}$).

2.17 MISCELLANEOUS HARDWARE

- A. Access Doors (including Sheet Metal, Screen and Woven Wire Mesh Types): Except for fire-rated doors and doors to Temperature Control Cabinets, equip each single or double metal access door with Lock Type E76213, conforming to ANSI A156.5. Key locks as directed. Ship lock prepaid to the door manufacturer. Hinges shall be provided by door manufacturer.
- B. Cylinders for Various Partitions and Doors: Key cylinders same as entrance doors of area in which partitions and door occur, except as otherwise specified. Provide cylinders to operate locking devices where specified for following partitions and doors:
- C. Mutes: Conform to ANSI A156.16. Provide door mutes or door silencers Type L03011, of white or light gray color, on each steel door frame. Furnish 3 mutes for single doors and 2 mutes for each pair of doors, except double-acting doors. Provide 2 mutes for each edge of sliding door which would contact door frame.

2.18 FINISHES

- A. Exposed surfaces of hardware shall have ANSI A156.18, finishes as specified below. Finishes on all hinges, pivots, closers, thresholds, etc., shall be as specified below under "Miscellaneous Finishes." For field painting (final coat) of ferrous hardware, see Section 09 91 00, PAINTING.
- B. 626 or 630: All surfaces on exterior and interior of buildings, except where other finishes are specified.
- C. Miscellaneous Finishes:
 - 1. Hinges --exterior doors: 626 or 630.
 - 2. Hinges --interior doors: 652.
 - 3. Pivots: Match door trim.
 - 4. Door Closers: Factory applied paint finish - Dull or Satin Aluminum color.
 - 5. Thresholds: Mill finish aluminum.
 - 6. Cover plates for floor hinges and pivots: 630.
 - 7. Kick plates and armor plates (non rated doors) – clear plastic.

8. Armor plates on rated doors – CH BRN; chocolate brown.
9. Other primed steel hardware: 652.
- D. Where colors other than chocolate brown or black are specified, color of core material may be different than color of face.

2.19 BASE METALS

Apply specified U.S. Standard finishes on different base metals as following:

Finish	Base Metal
652	Steel
626	Brass or bronze
630	Stainless steel

PART 3 - EXECUTION

3.1 HARDWARE HEIGHTS

- A. For new buildings locate hardware on doors at heights specified below unless otherwise noted:
- B. Hardware Heights from Finished Floor:
 1. Exit devices centerline of strike (where applicable) 1000 mm (40-5/16 inches).
 2. Locksets and latch sets centerline of strike 1000 mm (40-5/16 inches).
 3. Deadlocks cylinder and thumb turn centerline 1200 mm (48 inches).
 4. Hospital arm pull 1170 mm (46 inches) to centerline of bottom supporting bracket.
 5. Centerline of door pulls to be 1000 mm (42 inches).
 6. Push plates and push-pull shall be 1250 mm (53 inches) to top of plate.
 7. Push-pull latch to be 1000 mm (40-5/16 inches) to centerline of strike.
 8. Locate other hardware at standard commercial heights. Locate push and pull plates to prevent conflict with other hardware.

3.2 INSTALLATION

- A. Closer devices, including those with hold-open features, shall be equipped and mounted to provide maximum door opening permitted by building construction or equipment. Closers shall be mounted regular arm. Where closers are mounted on doors they shall be mounted with sex nuts and bolts; foot shall be fastened to frame with machine screws.
- B. Substitute parallel arm or top jamb mounting for regular arm mounting where the following conditions occur:
 1. Where door to room opens outward into corridor, provide parallel arm.
 2. Where exterior doors open outward, provide parallel arm for hollow metal doors and top jamb for aluminum doors.
- C. Fastenings: Suitable size and type and shall harmonize with hardware as to material and finish. Provide machine screws and lead expansion shields to secure hardware to concrete, ceramic or

quarry floor tile, or solid masonry. Fiber or rawl plugs and adhesives are not permitted. All fastenings exposed to weather shall be of nonferrous metal.

- D. After locks have been installed; show in presence of COTR that keys operate their respective locks in accordance with keying requirements. (All keys, Master Key level and above shall be sent Registered Mail to the Medical Center Director along with the bitting list. Also a copy of the invoice shall be sent to the COTR for his records.) Installation of locks which do not meet specified keying requirements shall be considered sufficient justification for rejection and replacement of all locks installed on project.

3.3 HARDWARE SETS

- A. Except for the BEST cores, hardware brand names are for reference only and substitutions meeting the specification will be considered.

- B. Abbreviations used in hardware schedule:

1. CSK – Counter sunk holes and undercut oval head screws
2. CVR – Concealed vertical rod
3. EO – Exit only
4. HO – Hold open
5. LHR – Left Hand Reverse
6. NL - Night Latch
7. NRP – Non rising pin
8. PA – Closer parallel arm mount
9. Reg – Regular arm mount
10. RHR – Right Hand Reverse
11. SVR – Surface vertical rod

- C. Hardware sets:

Set: 1

Doors: 029

Description: Entrance Pair of aluminum doors

1 Continuous hinge	MCK-12HD	CL
1 Continuous hinge	MCK-12HD PT	CL
1 Exit device CVR (NL-OP electric)	ED4800 121NL M92 M94 CT7SD RHR leaf	630
1 Exit device CVR (EO electric)	ED4800 M92 M92 LHR leaf	630
2 Door Pull	YBF167 (45 degree offset 10" CTC)	US32D
1 Rim Cylinder w/construction core	K645	626
1 Permanent Core	1C-7	626
2 Concealed overhead stop	6 series stop	630

1 Automatic Operator (pair)	By automatic operator supplier
2 Door Switch	By automatic operator supplier
1 Threshold	171AK FHSL14
1 Rain drip cap	346C
1 Weather strip	By aluminum door supplier
2 Door sweep	345ANB
2 Electric Power Transfer	EL-CEPT
2 Quick connect cable	QC-C***P LAR (door side)
2 Quick connect cable	QC-C1500P (frame side)
1 Card reader	By electrical
2 Door position switch	DPS-M-BK
1 Power Supply/Controller	782

Notes: Unlocked mode, both exit devices will be manually dogged down, making the doors push/pull operation.

Locked mode, authorized entry via the card reader momentarily unlock both door leaves and enabling the outside door switch. Activating the door switch while the door is unlocked will signal the automatic operator to open the door.

Exiting is accomplished by the touch pad on the exit device (manual exiting), which will signal the card reader system for authorized exit via the internal touch bar switch. Lobby side door switch is always enabled. Activating the switch will momentarily unlock both door leaves and open the doors.

Set: 2

Doors: S03B

Description: Exterior from stair, single hollow metal door

3 Hinge (hvy wt)	T4A3386 NRP	US26D
1 Exit Device rim (NL electric)	ED5200 TH957 M92 M94 CT7SD	630
1 Rim Cylinder w/construction core	K645	626
1 Permanent Core	1C-7	626
1 Closer (PA w/stop)	CLP7500	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Threshold	2005AT Pemkote FHSL14	
1 Rain drip cap	346C	
1 Head weather strip	2891APK	
2 Jamb weather strip	45041CNB TEK	
1 Door bottom	2221APK TEK	
1 Electric Power Transfer	EL-CEPT	
1 Quick connect cable	QC-C***P LAR (door side)	
1 Quick connect cable	QC-C1500P (frame side)	
1 Card reader	By electrical	

1 Door position switch	MSS-1C
1 Power Supply/Controller	782

Notes: Authorized entry via the card reader momentarily unlocking the door. Exiting is accomplished by the touch pad on the exit device (manual exiting), which will signal the card reader system for authorized exit via the internal touch bar switch.

Set: 3

Doors: 107, 207

Description: Double egress corridor doors on magnetic hold opens

2 Continuous Hinge	HG305	630
2 Fire Exit Device SVR (EO)	ED5470B M55	630
2 Closer (double egress pull side)	7500ST DE	689
2 Kick Plate	K4125 8" high CSK	Clear
2 Electromagnetic holder	998	689
1 Gasketing	S44D	
2 Astragal (meeting stile)	29326CNB 5/8" brush	
2 Edge Guard	EG308	630

Notes: Mount astragal on lock stile pull side, to cover between door gap.
Fire alarm panel to power electromagnetic holder.

Set: 4

Doors: S03A, S121, S221

Description: Stair doors, fire rated with exit device

3 Hinge (hvy wt)	T4A3786	US26D
1 Fire exit device Rim (lever)	ED5200A N955	630
1 Rim Cylinder w/construction core	K645	626
1 Permanent Core	1C-7	626
1 Closer (Reg arm)	7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 4A

Doors: 030

Description: Cross Corridor door, fire rated with exit device

3 Hinge (hvy wt)	T4A3786	US26D
1 Fire exit device Rim (lever)	ED5200A N955	630

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DOOR HARDWARE

1 Rim Cylinder w/construction core	K645	626
1 Permanent Core	1C-7	626
1 Closer (PA)	PR7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 5

Doors: 028

Description: Classroom fire rated door

3 Hinge (std wt)	TA2714	US26D
1 Mortise Lock (classroom)	ML2055 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Closer (Reg arm)	7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 5A

Doors: 109, 209

Description: Passage set fire rated door

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (passage)	ML2010 NSA	626
1 Closer (Reg arm)	7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 6

Doors: 029A

Description: Corridor door, fire rated with office lockset

3 Hinge (std wt)	TA2714	US26D
1 Mortise Lock (office)	ML2051 NSA CT7SD	626
1 Closer (PA)	PR7500	689

BUILDING 211 WEST WING ADDITION
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DOOR HARDWARE

1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 7

Doors: 031, 032

Description: Restroom, fire rated with push pull latchset

3 Hinge (std wt)	TA2314	US32D
1 Mortise Lock (push pull latchset)	ML2010 HPSK	630
1 Closer (Reg arm)	7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Gasketing	S44D	

Set: 8

Doors: 126A, 226A

Description: Bathroom, pair of doors

2 Continuous Hinge	HG326	630
1 Top flush bolt	2905 self latch type	US26D
1 Bottom flush bolt	557	US26D
1 Dust proofstrike	570	US26D
1 Mortise lock (privacy)	ML2030 NSA M19V	626
1 Concealed overhead stop	2 series stop	630
2 Mop Plate	K4125 4" high CSK	Clear
2 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
2 Lock stile edge guard	302B 36"	US32D
2 Silencer	608	

Notes: Armor plate push side of both door leaves. Mop plates for pull side of the door. Wall stop for inactive door leaf, and concealed overhead stop for the active door leaf.

Set: 9

Doors: 126, 226

Description: Bedroom, pair of doors

2 Continuous Hinge	HG326	630
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BUILDING 211 WEST WING ADDITION
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DOOR HARDWARE

1 Top flush bolt	2905 self latch type	US26D
1 Bottom flush bolt	557	US26D
1 Dust proofstrike	570	US26D
1 Mortise lock (passage)	ML2010 NSA	626
2 Mop Plate	K4125 4" high CSK	Clear
2 Kick Plate	K4125 8" high CSK	Clear
2 Wall stop	401	US26D
2 Lock stile edge guard	302B 36"	US32D
2 Silencer	608	

Notes: Armor plate push side of both door leaves. Mop plates for pull side of the door.

Set: 10

Doors: 040A, 040B

Description: Storage, pair of doors with storeroom lockset

6 Hinge (std wt)	TA2714	US26D
1 Top flush bolt	2905 self latch type	US26D
1 Bottom flush bolt	557	US26D
1 Dust proofstrike	570	US26D
1 Mortise lock (storeroom)	ML2057 NSA CT7SD	626
1 Permanent Core	1C-7	626
2 Kick Plate	K4125 8" high CSK	Clear
2 Wall stop	401	US26D
2 Hinge stile edge guard	301 36"	US32D
2 Lock stile edge guard	302B 36"	US32D
2 Silencer	608	

Set: 11

Doors: 128A, 128B, 228A, 228B

Description: Clean Linen, pair of doors with electrified lockset for card reader

5 Hinge (std wt)	TA2714	US26D
1 Electric hinge (std wt)	TA2714 QC12	US26D
1 Flush bolt set	2945 self latch type	US26D
1 Dust proofstrike	570	US26D
1 Electrified Mortise Lock	ML20905 NSM 24AD M92 CT7SD	626
2 Closer (PA w/stop)	CLP7500	689
2 Armor Plate	K4125 36" high CSK	Clear
2 Hinge stile edge guard	301 36"	US32D

BUILDING 211 WEST WING ADDITION
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DOOR HARDWARE

2 Lock stile edge guard	302B 36"	US32D
2 Silencer	608	
1 Quick connect cable	QC-C***P LAR (door side)	
1 Quick connect cable	QC-C1500P (frame side)	
1 Card reader	By electrical	
2 Door position switch	DPS-M-BK	
1 Power Supply	BPS-24-1	

Set: 12

Doors: 039A, 039B, 039C, 039D

Description: Large Meeting room, with exit device

3 Hinge (std wt)	TA2714	US26D
1 Exit Device Rim (lever)	ED5200 N955 CT7SD	630
1 Rim Cylinder w/construction core	K645	626
1 Permanent Core	1C-7	626
1 Closer (PA w/hold open)	PR7500H	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
3 Silencer	608	

Set: 13

Doors: 106, 206

Description: Quite room, passage latchset

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (passage)	ML2010 NSA	626
1 Stop (floor/wall)	440/401	US26D
3 Silencer	608	

Note: Provide floor stop, if wall stop isn't appropriate with wall condition.

Set: 14

Doors: 120A, 220A

Description: Bathroom, privacy latchset

1 Continuous Hinge	HG326	630
1 Mortise lock (privacy)	ML2030 NSA M19V	626
1 Wall stop	401	US26D
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear

BUILDING 211 WEST WING ADDITION
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DOOR HARDWARE

1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 14A

Doors: 114B, 214B

Description: Staff Toilet, privacy latchset

3 Hinge (std wt)	TA2314	US32D
1 Mortise lock (privacy)	ML2030 NSA M19V	626
1 Closer (Reg arm)	7500	689
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
3 Silencer	608	

Set: 14B

Doors: 112A, 115A, 123A, 124A, 125A, 129A, 212A, 215A, 223A, 224A, 225A, 229A

Description: Bathroom, privacy latchset

1 Continuous Hinge	HG326	630
1 Mortise lock (privacy)	ML2030 NSA M19V	626
1 Floor Stop	440	US26D
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 14C

Doors: 113A, 116A, 118A, 119A, 127A, 130A, 213A, 216A, 218A, 219A, 227A, 230A

Description: Bathroom, privacy latchset

1 Continuous Hinge	HG326	630
1 Mortise lock (privacy)	ML2030 NSA M19V	626
1 Concealed overhead stop	2 series stop	630
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 15

Doors: 036, 037

Description: Small meeting room, classroom lockset

3 Hinge (std wt)	TA2714	US26D
1 Mortise Lock (classroom)	ML2055 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
3 Silencer	608	

Set: 15A

Doors: 104D, 204D

Description: Family Dining, passage set

3 Hinge (std wt)	TA2714	US26D
1 Mortise Latchset (passage)	ML2010 NSA	626
1 Kick Plate	K4125 8" high CSK	Clear
1 Stop (floor/wall)	440/401	US26D
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Note: Provide floor stop, if wall stop isn't appropriate with wall condition.

Set: 15B

Doors: 104B, 204B

Description: Kitchen, office lockset

3 Hinge (std wt)	TA2714	US26D
1 Mortise Lock (office)	ML2051 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Concealed overhead stop	2 series stop	630
1 Closer (Reg arm)	7500 7786OH	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Notes: Door closer drop plate for closer/overhead concealed stop conflict.

Set: 16

Doors: 122E, 122F, 222E, 222F

Description: Storage, chase, storeroom lockset

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (storeroom)	ML2057 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 16A

Doors: 034, 110B, 111C, 210B, 211C

Description: Electrical closet, housekeeping closet, Soiled Carts, storeroom lockset and door closer

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (storeroom)	ML2057 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Closer (Reg arm)	7500	689
1 Armor Plate	K4125 36" high CSK	Clear
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 16B

Doors: 038

Description: Housekeeping closet, storeroom lockset and door closer

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (storeroom)	ML2057 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Closer (PA)	PR7500	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 16C

Doors: 104C, 204C

Description: Pantry, office lockset

3 Hinge (std wt)	TA2714	US26D
1 Mortise lock (office)	ML2051 NSA CT7SD	626
1 Permanent Core	1C-7	626
1 Concealed overhead stop	2 series stop	630
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 17

Doors: 112, 113, 115, 116, 118, 119, 120, 123, 124, 125, 127, 129, 130, 212, 213, 215, 216, 218, 219, 220, 223, 224, 225, 227, 229, 230

Description: Bedroom, push pull latchset

1 Continuous Hinge	HG326	630
1 Mortise lock (passage)	ML2010 NSA	626
1 Mop Plate	K4125 4" high CSK	Clear
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	

Set: 18

Doors: 109A, 209A

Description: Electrical room, with electrified lockset for card reader and door closer

2 Hinge (std wt)	TA2714	US26D
1 Electric hinge (std wt)	TA2714 QC12	US26D
1 Electrified Mortise Lock	ML20905 NSM 24AD M92 CT7SD	626
1 Permanent Core	1C-7	626
1 Closer (Reg arm)	7500	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Wall stop	401	US26D
3 Silencer	608	
1 Quick connect cable	QC-C***P LAR (door side)	
1 Quick connect cable	QC-C1500P (frame side)	
1 Card reader	By electrical	
1 Door position switch	DPS-M-BK	
1 Power Supply	BPS-24-1	

Set: 18A

Doors: 117C, 131A, 217C, 231A

Description: Medicine Room, Comm Room, with electrified lockset for card reader and door closer

2 Hinge (std wt)	TA2714	US26D
1 Electric hinge (std wt)	TA2714 QC12	US26D
1 Electrified Mortise Lock	ML20905 NSM 24AD M92 CT7SD	626
1 Permanent Core	1C-7	626
1 Closer (PA w/stop)	CLP7500	689
1 Kick Plate	K4125 8" high CSK	Clear
1 Hinge stile edge guard	301 36"	US32D
1 Lock stile edge guard	302B 36"	US32D
3 Silencer	608	
1 Quick connect cable	QC-C***P LAR (door side)	
1 Quick connect cable	QC-C1500P (frame side)	
1 Card reader	By electrical	
1 Door position switch	DPS-M-BK	
1 Power Supply	BPS-24-1	

Set: 19

Doors: 022E

Description: Large Meeting Partition Wall door

1 All hardware	By folding wall/partition supplier
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